

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1- 26. (Canceled).

27. (New) A multi-codebook fixed bitrate CELP signal block encoding method, including the steps of:

cyclically generating a sequence of excitation codebook identifications;

accessing the cyclically generated sequence of excitation codebook identifications;

identifying, for each signal block of a plurality of signal blocks, a corresponding excitation codebook identification from said cyclically generated sequence of excitation codebook identifications; and

encoding each signal block by using an excitation codebook corresponding to said identified excitation codebook identification;

wherein said identifying step is defined by stepping through each excitation codebook identification of said cyclically generated sequence of excitation codebook identifications, each excitation codebook identification corresponding to one excitation codebook of a plurality of excitation codebooks.

28. (New) A multi-codebook fixed bitrate CELP signal block encoding method, including the steps of:

pseudo-randomly generating a sequence of excitation codebook identifications;

accessing the pseudo-randomly generated sequence of excitation codebook identifications;

identifying, for each signal block of a plurality of signal blocks, a corresponding excitation codebook identification from said pseudo-randomly generated sequence of excitation codebook identifications; and

encoding each signal block by using an excitation codebook corresponding to said identified excitation codebook identification;

wherein said identifying step is defined by stepping through each excitation codebook identification of said pseudo-randomly generated sequence of excitation codebook identifications, each excitation codebook identification corresponding to one excitation codebook of a plurality of excitation codebooks.

29. (New) A multi-codebook fixed bitrate CELP signal block decoding method, including the steps of:

cyclically generating a sequence of excitation codebook identifications;

accessing the cyclically generated sequence of excitation codebook identifications;

identifying, for each signal block of a plurality of signal blocks, a corresponding excitation codebook identification from said cyclically generated sequence of excitation codebook identifications; and

decoding each encoded signal block by using an excitation codebook corresponding to said identified excitation codebook identification;

wherein said identifying step is defined by stepping through each excitation codebook identification of said cyclically generated sequence of excitation codebook identifications, each excitation codebook identification corresponding to one excitation codebook of a plurality of excitation codebooks.

30. (New) A multi-codebook fixed bitrate CELP signal block decoding method, including the steps of:

pseudo-randomly generating a sequence of excitation codebook identifications;

accessing the pseudo-randomly generated sequence of excitation codebook identifications;

identifying, for each signal block of a plurality of signal blocks, a corresponding excitation codebook identification from said pseudo-randomly generated sequence of excitation codebook identifications; and

decoding each encoded signal block by using an excitation codebook corresponding to said identified excitation codebook identification;

wherein said identifying step is defined by stepping through each excitation codebook identification of said pseudo-randomly generated sequence of excitation codebook identifications, each excitation codebook identification corresponding to one excitation codebook of a plurality of excitation codebooks.

31. (New) A multi-codebook fixed bitrate CELP signal block encoder, comprising:

means for cyclically generating a sequence of excitation codebook identifications;

means for accessing the cyclically sequence of excitation codebook identifications;

means for identifying, for each signal block of a plurality of signal blocks, a corresponding excitation codebook identification from said cyclically generated sequence of excitation codebook identifications; and

means for encoding each signal block by using an excitation codebook corresponding to said identified excitation codebook identification;

wherein said cyclically generated sequence of excitation codebook identifications comprises a plurality of different excitation codebook identifications, each excitation codebook identification of said plurality of different excitation codebook identifications corresponding to one excitation codebook of a plurality of different excitation codebooks.

32. (New) A multi-codebook fixed bitrate CELP signal block decoder, comprising:

means for cyclically generating a sequence of excitation codebook identifications;

means for accessing the cyclically sequence of excitation codebook identifications;

means for identifying, for each signal block of a plurality of signal blocks, a corresponding excitation codebook identification from said cyclically generated sequence of excitation codebook identifications; and

means for decoding each encoded signal block by using an excitation codebook corresponding to said identified excitation codebook identification;

wherein said cyclically generated sequence of excitation codebook identifications comprises a plurality of different excitation codebook identifications, each excitation codebook identification of said plurality of different excitation codebook identifications corresponding to one excitation codebook of a plurality of different excitation codebooks.

33. (New) A multi-codebook fixed bitrate CELP signal block encoder, comprising:

means for pseudo-randomly generating a sequence of excitation codebook identifications;

means for accessing the pseudo-randomly generated sequence of excitation codebook identifications;

means for identifying, for each signal block of a plurality of signal blocks, a corresponding excitation codebook identification from said pseudo-randomly generated sequence of excitation codebook identifications; and

means for encoding each signal block by using an excitation codebook corresponding to said identified excitation codebook identification;

wherein said pseudo-randomly generated sequence of excitation codebook identifications comprises a plurality of different excitation codebook identifications, each excitation codebook identification of said plurality of different excitation codebook identifications corresponding to one excitation codebook of a plurality of different excitation codebooks.

34. (New) A multi-codebook fixed bitrate CELP signal block decoder, comprising:

means for pseudo-randomly generating a sequence of excitation codebook identifications;

means for accessing the pseudo-randomly generated sequence of excitation codebook identifications;

means for identifying, for each signal block of a plurality of signal blocks, a corresponding excitation codebook identification from said cyclically generated sequence of excitation codebook identifications; and

means for decoding each encoded signal block by using an excitation codebook corresponding to said identified excitation codebook identification;

wherein said pseudo-randomly generated sequence of excitation codebook identifications comprises a plurality of different excitation codebook identifications, each excitation codebook identification of said plurality of different excitation codebook identifications corresponding to one excitation codebook of a plurality of different excitation codebooks.